Surface Sediment Grab Sampled Field Collection DataSheet - Archived Samples Pending Decision to Analyze

Last revision date *23-May-18*

Protocol	Sample ID	Sample Type	Date Sample Collected	River Mile	Substatio			
					1	2	3	4
2-bowl	B401	SRS	4/26/2018	11-12	29	26	10	28
	B401							
2-bowl	S123	SMA	5/3/2018	6-7	15	18	NR	NR
	S123							
2-bowl	S068	SMA	5/5/2018	5-6	22	21	20	NR
	S068							
2-bowl	S077	SMA	5/7/2018	5-6	8	18	8	22
	S077							
2-bowl	S081	SMA	5/8/2018	5-6	20	20	18	NR
	S081							
2-bowl	S054	SMA	5/11/2018	4-5	14	NR	NR	NR
	S054							
2-bowl	S124	SMA	5/12/2018	6-7	NR	16	NR	30
	S124							
2-bowl	S053	SMA	5/12/2018	4-5	18	NR	21	22
	S053							
2-bowl	S088	SMA	5/9/2018	6-7	14	NR	NR	OP
	S088							
2-bowl	S080	SMA	5/13/2018	6-7	20	20	18	19
	S080							
2-bowl	S158	SMA	5/14/2018	7-8	NR	3	20	16
	S158							
2-bowl	S249	SMA	5/14/2018	9-10	20	18	OP	32
	S249							
2-Archive	**S084***	SMA	5/8/2018	5-6	17	18	22	19
	S084				17	18	22	19
2-Archive	**S090***	SMA	5/9/2018	6-7	9	NR	NR	21
	S090				9	NR	NR	21
archive only	B409	SRS	4/28/2018	11-12				U
	B409*		4/29/2018		5	15	20	16
archive only	**B405***	SRS	4/28/2018	11-12	18	12	NR	NR

archive only	B414	SRS	4/30/2018	11-12	NR	NR	NR	
	B414*				NR	17	10	17
archive only	**S204***	SMA	5/2/2018	8-9	16	12	17	NR
archive only	**S147***	SMA	5/4/2018	7-7.5	NR	16	8	17
archive only	**S010***	SMA	5/9/2018	2-3	22	NR	NR	NR
archive only	**S255***	SMA	5/11/2018	9-10	NR	15	NR	NR
archive only	**S115***	SMA	5/12/2018	6-7	12	19	14	
archive only	**S078***	SMA	5/12/2018	5-6	NR	NR	NR	23
archive only	**S097***	SMA	5/13/2018	6-7	NR	5	NR	16
archive only	**S135***	SMA	5/14/2018	6-7	17	NR	16	NR
archive only	**S157***	SMA	5/14/2018	7-8	16	NR	NR	15
archive only	**S155***	SMA	5/14/2018	7-8	14	12	13	17

Notes:

2-bowl = The black text Sample IDs represent samples submitted to the lab and represent a 3-point co
The red text Sample IDs represent the “archived” sample.
The red text under the “Substation Recovery Depth” column represent the recovery depths composite
The red text under the “Avg Sample Depth (retained)” column represent the archived average sample
Sample IDs with an asterisks (*) in the table are authorized for analytical testing.

Archive samples not required to be analyzed as per per June 4, 2018 technical call
Archive samples authorized by EPA to analyze as per June 4, 2018 technical call

Sample Depth													
n Recovery Depth by Attempt (cm)									Avg Recovery Depth (cm)	Avg Sample Depth (retained) (cm)	Composite Sediment Description	Primary <25' Radius	
5	6	7	8	9	10	11	12	13					S
28									24	28	Sandy silt	Y	
										22			
23	22	23							20	23	Sandy Silt	--	
										19			
NR	NR	17	NR	22					20	22	Sand	Y	
										20			
21	21								16	21	Silty Sand	Y	
										20	Silty Sand		
22	22								20	21		Y	
										21	Sand		
NR	30	30	29						26	30	Sand	--	
										24	Sandy Silt	--	
31	30								27	30	Sandy Silt	--	
										26		--	
12	21								19	21	Silty Sand	Y	
										20			
29	30	31							26	30	Sandy Silt	--	
										24		--	
18	22								20	21	Silty Sand	Y	
										19			
10	21	25							16	22	Sand	Y	
										15	Sandy Silt		
27									24	26	Silty Sand	Y	
										26			
NR	NR	17	21	14					18	21	Silty Sand	--	
NR	NR	17	21	14						19			
18	8	15							14	16	Sand	--	
18	8	15								21			
Underground Cable Crossing									--	No Sample	--	--	
16									14	17	Silt	--	
18									16	16	Silt	Y	

									NA	No Sample	--	N
									15	15	Silt	--
18	19								16	15	Sand	--
10	8	25	21						15	19	Silty Sand	--
23	16								20	20	Sand	--
12	12								13	13	Sandy Silt	--
									15	15	Sand	--
NR	NR	NR							23	23	Silty Sand	--
14	11								11	14	Sand	Y
11	18								16	15	Sand	--
NR	NR	NR	NR	33.5					22	22	Sandy Silt	--
10	17								14	13	Silty Sand	Y

mposite with samples >20 cm.

ed together for the archive sample.
depth

Location			# of Attempts	Bin Type (1-4)
Primary <50' Radius	Alt 1	Alt 2		
ample Collected (Y/N)				
--	--	--	5	2
Y	NA	NA	7	2
	NA	NA		
--	NA	NA	9	2
	NA	NA		
--	NA	NA	6	3
--	NA	NA		
--	NA	NA	6	2
--	NA	NA		
Y	NA	NA	8	2
	NA	NA		
Y	NA	NA	6	2
--	NA	NA	6	3
--				
Y	NA	NA	7	1
	NA	NA		
--	NA	NA	6	3
--				
--	NA	NA	7	3
--	NA	NA		
--	NA	NA	5	1
--	NA	NA		
Y	NA	NA	9	2
Y	NA	NA	7	3
--	--	--	0	--
--	--	Y	5	3
--	--	--	5	3

N	--	--	3	4
--	Y	--	4	3
Y	NA	NA	6	2
Y	NA	NA	8	2
Y	NA	NA	6	3
Y	NA	NA	6	3
Y	NA	NA	3	3
Y	NA	NA	7	2
--	NA	NA	6	2
Y	NA	NA	6	2
Y	NA	NA	9	3
--	NA	NA	12	2

General Comments from Field Logs	Reason for Mu		
	Debris / Logs	Rocks / Riprap	Hard Bottom / Low Penetration
and 5 <10cm (PDI-SG-B401-BL1-10) archived in freezer at warehouse pending further instruction.			
7 attempts. Metal and wood in jaws attempts 3&4. Full weights on.	X		X
Attempts 1, 2, and 5 archived.			
Attempts 1, 2, 9 composited (Submitted to Lab). 20cm recovery but was half full on one side of sampler and winnowing material, attempt 3. Wood in jaws and winnowing in attempts 4-6 and 8 with no recovery	X		
Attempts 1, 2, and 7 composited (Archived)			
6 attempts. Sand and gravel. Low recovery			X
Attempts 4,5,6 composited and archived			
6 attempts 1,2,5 sampled. Wood in jaws attempts 3 and 4	X		
archive attempts 3,5,6			
8 attempts. 6,7,8 composited.			
EPA 2-Bowl (1,7,8)			
6 attempts. Wood and/or open jaws noted in attempts 3-5.	X		
EPA 2 Bowl Archive (2,4,5)			
6 attempts. Poor recovery or empty sampler attempts 2 and 5.			
EPA 2 Bowl Archive (1,3,4)			
7 attempts. Attempts 5,6, and 7 composited. Sampler tipped attempt 2, no recovery attempt 3 and OP attempt 4.			
Attempts 1,5 and 6 composited and archived.			
6 attempts. Grabs 1,2, and 6 >20cm used for sample.			
Grabs 1-3 used for EPA 2-Bowl archive.			
7 attempts. Hard clay resulted in poor or NR attempts 1 and 2.			
2 bowl archive (3,4,5) silty clay with trace fine sands			X
5 attempts. OP attempt 3.			
2 Bowl archive (2,4,5)			
9 attempts. Bike tire in jaws attempts 3,4,8 archived.			
Attempts 1,2,3 archived			
7 attempts. Rock in jaws attempts 2 and 3. 3 point archive of 1,4 and 5 per EPA and a 32 oz archive per EPA of 4.		X	
Archived a 32 oz archive per EPA of attempt 4 (21cm).			
No attempt was made due to a potential cable crossing in line with sample area			
Alt 1 location too close to potential cable crossing, start at Alt 2. 5 attempts. Jaws opened and low recovery attempts 1,2, and 4. Twig noted in jaws attempt 4.	X		
5 attempts, jaws open due to hose and rock stuck in jaws attempts 2 and 3. Sample collected and archived in freezer at warehouse.	X	X	X

3 attempts. Water washing out all attempts. Bottom has a lot of surface debris (mostly wood) on slope. Primary location very close to steep barge and on steep slope.	X		
4 attempts. Attempt 1 the sampler tipped over before jaws closed. Started at 25' radius because target is close to failed primary location. Attempt 3 at 50' radius to get off of steep slope.			
6 attempts. Debris (leaf, plastic, rocks, metal, and wood) noted in jaws on attempts 2-6. Slumping noted in attempt 5. Archive	X	X	
8 attempts. Archived attempts 5, 7, and 8. Stick in jaws attempts 1,2 and 4. Low recovery/sand/gravel attempts 3 and 6. Submerged logs/pilings. Sample radius partially onshore/may require land-based sampling. 250 lbs used on all attempts.	X	X	
6 attempts. Composite of 1,5 and 6 Archived. Sticks in jaws attempt 2. Gravels and cobble in attempts 3 and 4.	X	X	
6 attempts. Rocks and grass in open jaws attempt 1. Poor disturbed grab attempts 3 annd 4. Sample archived <20cm recoveries.	X		
3 attempts. Sample archived <20cm. NR in 3 attempts at 50' radius.			
7 attempts. Sampler empty attempts 1 and 3. Cobble, rock or boulder in jaws attempts 2,5,6, and 7. Only volume from 1 grab used in sample, archived.		X	
6 attempts. Sampler empty attempt 1. All fines winnowed attempt 2. Rock in open jaws attempt 3.		X	
6 attempts. Debris (rock, stick) noted in open jaws attempts 2,4, and 6.	X	X	
9 attempts. Stick in open jaws attempts 1. All water attempts 2,3,5-8. OP one side attempt 9.	X		
6 attempts. First three collected for possible 2-bowl. 2nd bowl wasn't collected because attempts 4-6 not >20 cm. First three attempts were archived.	X		

ltiple Attempts		
Over-Penetration	**Slope**	**Unk**
		X
X	X	
X		
		X

	X	
	X	
		X

READ ME
Updated by Keith Kroeger on June 20, 2018

Table was developed and sent to EPA on May 25th for consideration
Table was discussed with EPA on a tech call June 4, 2018.
Table was updated June 20, 2018, to include Sample Location S155

File Path:
Saved in Geosyntec Seattle Server:
\\seattle-01\data\Projects\Portland Pre-Design PNG0767A\300 Data and Field\310 Field Sampling and Forms\5_ Surface Sediment\Geosyntec Tracking Spreadsheet